MAIN CURRENTS

IN MODERN THOUGHT

PORT CHESTER, N. Y.

The Journal of the Foundation for Integrated Education, 246 East 46th St., New York 17, N. Y.

A co-operative journal to promote the free association of those working toward the integration of all knowledge through the study of the whole things, Nature, Man, and Society, assuming the universe to be one, dependable, intelligible, harmonious.

INDEX.

FOR VOLUME 14, 1957-1958



BOSTON UNIVERSITY
COLLEGE OF LIBERAL ARTS
LIBRARY

ARTICLES:

"The Cuisenaire Discovery," by C. Gattegno "Dimensions of the Human Relationship," by Clark Moustakas 107-110
"Displacement of Earth's Crust," by Charles H. Hapgood 3-8 Electro-Encephalograph and Mind," by H. Tudor Edmunds 36-38 The Healthy Personality," by William N. Nicholson 62-63
"Human Values in a Non-Technical Cul-"Human Values in a Non-Technical Cul-ture," by William Henry Harris 27-30 "Imaginism and Scientific Thought," by Raynor C. Johnson 40-41 "Integral Order in Nature," by Donald Hatch Andrews 75-80 "Life and the Wave Nature of Matter—a Reply," by Andrew A. Cochran 42-43 "Man's Mathematical Mind," by John Kreitner 111-113 "Man's Unique Distinction," by Edmund W. Sinnott 99-106 "Mind as the Basic Potential," by Alfred Taylor 83-86

"The Modern Predicament," by Henry Margenau 13-17

"Social Dynamics," by John Lindberg 31-35

"The Third Revolution and the Fifth Estate," by Boris B. Bogoslovsky Part I tate," by Boris B. 9-12: Part II 55-58 "Toward a Climate for Creativity," by Gustav J. Martin 59-61

"The Why of Arts and Crafts," by Ellice

SUBJECT INDEX

Schoonmaker 38-39

(Note: "(Rev.)" indicates a book review, "(s.r.)" indicates a source reading.) abnormal (ity) 19 absolute zero 115 abstracts—see source readings abstract (s) (ions) 67, 108, 113; ability to 114; of science 61; terms, thinking in 36; thought 103, 104 academic world 61 accident 104 Acheson-Lilienthal Report 88 action (s) 116, 117; of being 107, 108; program of 93 addition 53 Adelphi College 118 adjustmjent 62; integrative 19, 20 adolescence (ents) 23, 67 adult(s) 67; E.G.G. rhythm in 36 Advanced Studies in the Behavioral Sciences, Center for 46 advertising 11, 12, 57, 58
aesthetic (s) 101, 114; discipline 61; values 30 Africa 32 age (s) ice 3-5, 8, 119, 120; new 34; of despair 31; of Enlightenment 31; of optimism 31, 34 aggression(s) 89 aim(s) 107 airplane 59 alchemist 24 algebra (ic) 52-54, 67, 69, 96, 112, 123 alpha rhythm 36, 37 altruism (istic) 19, 102 American (ism) 92; Assembly 88; civiliza-tion 55; educational scene 72; Scientist 60 amino acids 42

amusements 30 analysis (tical) 17, 41, 95, 106, 108, 114 ancestor (s) of man 87 anger 62, 89 angle(s) 78, 79 Angstrom unit 79 animal(s) 100-106; design of 86; progenitors 85 Antarctic(a) 4; ice cap 5-7 anthropology(ist) 29, 102, 117; "On Meth-ods of Evolutionary Biology and . . ." (s.r.) 87 (3.7.) 6/ anthropomorphism 101 anxiety(ies) 15, 36, 62, 89, 90 ape(s) 100, 102; man- 104 archaeologist(s) 112 archetype(s) (al) 24; ideas 23, 24 Arctic 20. Aristotelian medicine 12; tradition 83 arithmetic(al) 38, 52-54, 67, 69, 96, 112, 113 Armed forces 12 art(s) 17, 23, 39, 93, 105, 115; and crafts 38; work of 110; ". . . for Teacher Education in This Time of Stress" (s.r.) 114 artha 27 artifact(s) 100 artists 58 asceticism 29 ashramas 28 Asia 30, 32 associativity 53 assumptions 31 astrology 23, 24 astronomy(er) 16, 22, 24, 70, 111 astrophysics 43 atmosphere of earth 42 atom(s) (ic) 21, 41-43, 66, 67, 70-80, 87; bomb 14; colors of light emitted by 80;—Energy Commission 88; "— for Power" (s.r.) 88; hydrogen 82; structure 75-82 attitudes 31, 32, 114; scientific 66 authority (tarianism) 19, 39, 62, 72, 83 autority (tarianism) 15, 55, 62, 72, 65 automation 12, 58 average(s) 19, 48, 58 awareness 37, 41, 51, 62, 89, 90; non-verbal 67; self- 86, 110 axis 8, 82; Cartesian 78 Babylonian clay tablets 111 balance 34 barbiturates 90 beast 104 beauty 27, 105 becoming 109 bee, honey 86, 103, 104 bee, honey 86, 103, 104
behavior(al) (ism) 16, 20, 36-38, 41, 101, 103, 108, 116; abnormal 19; human 103; integrated 43; of children 63; sciences 48; social 31
being 28, 107-111, 117; human 107-111
belief(s) 32, 35, 83; Christian 35; integration of knowledge and 45 beta rhythm 36 biochemistry (ical) (ists) 64, 85; —Individuality (rev.) 47, 48; level 84; manipulations 86; variability 47 biogenetic law 85 biology(ical) (ists) 3, 24, 101-103, 106; and ethics 95; Elements of Mathematical— (rev.) 96; fields, 48; foundations of the mind 105; "On the Methods of Evolutionary — and Anthropolgy" (s.r.)

87 biophysical level 84 biopoesis 64 bird 104

of 84

Bollingen Foundation 46

body 102, 117; human 85, 86, 105; wisdom

book reviews 22-24; 47-48; 70-72; 94-96; onscio 119-120 boundary conditions 76 bourgeoisie 9-11, 57, 58 Boyle's Law 15 Brahman 28 brain(s) 36-38, 46, 84, 100, 117; function 90; mid- 90 brainworker(s) 9, 11, 12, 55-58 business 28, 47; crisis 55 calculator(s) electronic 101, 106 calculus 96 campaign, political 12 capacity(ies) and structures 86; for sel growth 109 capital (ism) (ists) 9, 10, 12, 27, 57 career, choosing a 36 Cartesian axes 78 causality 23, 24, 42, 43 cause 24; and effect 82, 117 cell(s) 82, 84, 87, 91; brain 36, 37; gern 85; white 86 caste 28 centrifugal effect 5-7 centrisphere 66 cerebral cortex 90 chance 23, 43 change 102; dynamics of 70; social 32, 33 35; use of the will in 89 character(istic) 37, 63, 85 chemistry(ical) 22, 41, 54, 77, 86; element 42, 85; properties of atoms 66, 67 laws of 84 child (ren) (hood) 23, 37, 38, 39, 51-54, 63 68, 69, 93; feelings 107; potential 7 Chinese thought 23, 24 choice(s) 62, 106; for behavior 104; free dom of 63 choosing 108 Christian 15, 43, 44; belief 35 church 10 Ciba 46 Citadel, Market and Altar (rev.) 47 citizen(s) 10; Science and the (s.r.) 65 civilization 33, 34, 94, 95, 111; Americas 55, 56; mass 58 class(es) 34, 35; working 10 classify 106 clergy 9 climates 3 climatic change 6, 8; phases 6; zones 4 closure 114 coherence of organization 114 coincidence 23 collectivism 30 color(s) of the spectrum 80; — selective cells 91 common sense 116 communicate (ing) (tion) 11, 12, 57, 88 of ideas 101 Communists 10 community(ies) 9, 10, 29, 47, 57, 88, 89 96; The Ideal and the (rev.) 71 commutative(ity) 53; rings 53 compartmentalization of knowledge 61 competence 63 competition (ive) 101 complex (ity) of human body 85; order of complimentarity in physics 44 composition, mathematical laws of 52 concept(s) (ion) 31, 35, 43, 51, 54, 61, 72 evelo 83, 86, 93, 104; genetropic 48; intui tional 24; mathematical 67-69; so evotical 71; Toward a Concept of the Nor-harm mal Personality (s.r.) 19 tagno condition(s) (ed) (ing) 104, 107; boundary tago conduct 19, 20; human 17, 95

configuration 51 conflict(s) 19, 20 onfort

ngru

onscie

11

SI

onstar

contin

ontinu

ontinu

Contril

onvict

nopera

oordir

ore 8 orresp

ortex.

smos

rafts :

reatio

eativ

10

ah

C

pe To

risis in

riteria

ritical

rystal

co ube (i uisen 51 ulture

10

ti

aı

so

(1

uriosi

urricu

ycle (s

arwi

ata 2

eath

e Br

ecima

ecisio

educt efens

eling

emoc

epen

epres

escrip

esign

esire

espai

etach

etail

etern

etern

53

T ontrol

onformity 19, 33; in thinking 63 ongruence (ies) 53 nscience 101 94-96; onscious (ness) 34, 38, 41, 42, 51, 90, 91, 96, 105; as a mathematical function 96, 105; as a mathematical function 117; experiences 112; purpose 103; Space, Time and —(s.r.) 117
onstant, Planck's 80 ontinent(s) (al) 18; drift 4, 8 entinuity 34; of electron wave 81 nction ontinuum, psychical 40; space-time 44
intinuum, psychical 40; space-time 44
intributions of Various Disciplines to
Theology and Religion (s.r.) 43
introl 15, self- 37
inviction, inner 109
inoperation(ive) 101; international 12
international 12
international 12 ore 8 or self prespondence theory 23 ortex, cerebral 90 osmos(ic) (logy) 22, 24; purpose 44 rafts 38 ratts 38
reation of the universe 43, 44
reative(ity) (ness) 14, 23, 51, 62-64, 94,
100, 102-106, 107-111, 114, 115;
ability 58; aspects of evolution 87;
Creative and Mental Growth (rev)
23; imagining 41, 103; of science 95;
person 62, 63; role of man's mind 44;
Toward a Climate for 59-61 ; germ risis in the nation's affairs 92, 94 riteria, 46; psychological and pedagogical ntical words 110
rust, earth's, displacement of 6-8, 18, 20,
6, 67
119, 120
rystal(s) 75-82, 91; thermodynamics of
54, 63
compressed 66
tital 7 iube(ic) 78; order 79
Cuisenaire method of teaching mathematics
51-54; 68-69
ulture(s)(al) 14, 23, 27, 58, 71, 92-94,
104, 105, 116:—Foundations of Education (rev.) 48; lag 13; materialistic
and hedonistic 28; passivity 60; philosophy of 48; Social and—Dynamics
(rev.) 70; values 35; Western 27, 93
uriosity 66; creative 67
nerican urriculum 38
ycle(s) 55 ritical words 110 arwinism 41 ata 24, 31, 32, 51, 84, 85 eath 38 3 4 e Broglie wave 82 ecimal expansion 113 ecision, free 16 elective eductive prediction 118 elinquency, juvenile 28 emocracy(ies) 12, 65 epartmentalization 31, 32 ependence (ability) 19, 102 7, 88 ependence (ability) 19, 102 epression, economic 55 escriptive 16 esign 78, 84, 85 esire(s) 62, 103, 104 espair, Age of 31; of individual 108 etachment 33 etail(s) 61 eterminism (ation) 88, 89 1 rder of rder of etail(s) 61
eterminism (ation)
eterminism (ation) of classical physics 43,
2 82; of science 63; self- 43
61, 72 evelopment(s) of living beings 85, 99-106;
; intui
of ovum 84, 103; technological 60
9; so evotion 102
the Nor- harma 27, 28
ingnosis 108, 109
pundary lalogue(s), between the mind and reality
51, 52 dimension(s) 79; imaginary 81 direction of life 62-63; self- 108 disarmament 12; atomic 88 discipline(ary) instruction 68; mental 67, scientific and aesthetic 61; spiritual 27 discontinuity 24 discovery 13, 14, 108; of the Universe (rev.) 22 disintegration 30 assintegration 30 disorder, degree of 115 displacement, crust, 6, 7; mechanism of 6 disturbed, mentally 90 disunity 114 divine 109 dog 104 drive(s) 89; purposive 41; toward mastery 63 drug(s) 46; Psychopharmacologic — (s.r.) 90; wonder 59 dualism 44, 91 duties, moral 27, 28 dynamic(s) 96; relationships of the mind 52; social 31, 34, 35 earth 3-8, 18, 20, 21; A Geochemical Hypothesis of the Earth's Structure (s.r.) 66, 67; core of 66, 67; crust of 3-8, 18, 119-20; displacement of 3-8; history 3-8; magnetic field 8; origin of life on 64; rotation of 7; sciences 3 earthquake, waves 18 eclipses, solar 111 ecology 21 economy(ic) (ists) 16; problems 65; value 27
education(al) 21, 22, 33, 38, 46, 48, 56, 57, 61, 69, 71, 72, 92-95, 114, 115, 118; experience 93; general 48, 92; geometrical 54; mathematics 51-54; methods 23; National—Association 69; of scientists 44, 45; Organic Philosophy of, The (rev.) 71; philosophy of 71, 72; Philosophy of—(rev.) 119; research 71; system 68; Technical—in the U.S.S.R. 118
educator(s) 51, 60 educator(s) 51, 60 E.E.G. 36-38 effects(s) and cause 82, 117; cause of 24; observer 34 egg, human 103 egghead 9-12; 55-58 ego 63 electric(ical) (ity) 115; conductivity 67; currents in the brain 36, 37; field of the brain 36 the brain 36
electro-encephalograph(ic) 36; types 23
electron(s) (ic) 16, 41, 66, 67, 80-82, 115;
calculator 101, 106
element(s) (ary) 42, 91; chemical 66, 67,
85; mathematics 53; particles 16
embryo(ic) development 85, 103 emergence of insight 89 emotion(s)(al) 51, 62, 89, 90, 101 empiricism (ical) 24, 71, 118; evidence 43; nihilism 64, levels 93 energy 13, 23, 80, 89; atomic 88; non-ma-terial 42; nuclear 12; transformations 96 engineering 13, 55, 56; automotive 59, 60 enjoy(ment) 38 Enlightenment, Age of 31, 32, 34 enterprise, free 47 entropy 66, 81, 115, 117 environment 33, 60, 63-65, 72, 85, 86, 103-105 eobionts 64 epigenesis 87 equifinality 103
equilibrium (s) 34, 35
equivalence 23; of lengths 53

ESP experiments 24 essence 15

estate 9; Fifth 9-12, 55-58; third 9
eternity 108
ethics(ical) 13, 30, 65, 71, 116; and biology 95

Ethos, World-view and the Analysis of Sacred Symbols (s.r.) 116
Euclidean geometry 52-54; non- 44
evaluate (ing) 107, 108
events 24; cerebral 117
evil, absence of 108; understanding of 109
evolution(ary) 14, 41, 42, 64, 65, 87, 99, 101-103; change 111; history 100; of galaxies 70; On Methods of—Biology and Anthropology (s.r.) 87; organic 19; process 84; transformation 96
exact science 16
excitement, of the mentally disturbed 90
existence 15, 105; human 29, 107, 116
existential (ism) (ist) 14, 15, 30, 44, 62
experience(s) (ing) 15, 19, 38, 39, 62, 66, 89, 101, 105-107, 110, 111, 114, 116, 117; conscious 112; educational 93; human 32, 95, 104, 108; mathematical 52, 54; mystical 27, 29; of animals 104; of self 109
experientalism 71
experiment (ation) (alism) 31, 39, 71, 86; scientific 83
expert 58
extrasensory perception 37, 38

face(s), crystal 80 fact(s) 14, 15, 17, 40, 66, 105, 116 factor(ing) 53 faith 31 family 28, 30 fear 39, 89 feedback 16 feel(ing) 39, 62, 68, 107, 109, 115, 118 fellowship 15 field 119; earth's magnetic 8; electric, of the brain 36; force 46; gravitational 21; magnetic 7, 21 fifth estate 9-12, 55-58 fission 14 flexibility 114 fluency of ideas 114 force(s) 40, 85, 87, 117; field 46 Ford Foundation 46 Foreign Policy Research Institute 21 foresight 19
form(s) 79, 80, 81, 87, 93; ancestral 85;
regularity of 78
fossil 3; magnetism 8 Fourth of a Nation, A (rev.) 48 fragmentation 108 free(ing) 93, 109; decision 16; enterprise freedom 33, 43, 57, 62, 63, 65, 82, 88, 119; of being 110; of evolution 87 frequency 75, 80, 81, 82; of pitch 76 frictionless order 115; state of aggregation 115 frustration 62 fun 38 function(s) 41, 57, 86, 90; mathematical 117; of human body 84, 103; of sur-vival 35; periodicity 66 Fund for the Advancement of Education 46, 72 future perceptions 117

galaxy(ies) 70
gene(s) (etics) 41, 87, 103; constitution
104; mutations 100
general(ization)(s) 48, 60, 61, 72; education 48, 92
generation, spontaneous 42, 91
genetrophic concept 48
genius 61

geo-boards 53, 54 geochemical studies 64; A Geochemical Hypothesis of the Earth's Structure, (s.r.) 66, 67 geology(ist)(ical) 3, 6, 18, 119-20; periods 8 geometry(ies) (ical) 52-54, 67, 96, 113; education 54; non-Euclidean 44 geophysics (ist) (ical) 4, 18, 119-20 germ plasm 85 Gestalt psychology 24, 43; transformation 114 114
glacier(ation)(s) 5, 6; North American 5;
Wisconsin 6, 120
goal(s) 62, 101, 103, 104, 105; absence of 108; -seeking 104
God 15, 28, 44, 99, 102, 106
good, understanding of 109
governmental(s) 10-12, 32, 47, 92
grace 107. grace 107 gravity(ation) 5, 18, 120; gravitational field 21 Greeks 51 Greeks 51 group 19, 33, 101; responsibility 63 growth 89, 114; human 107; in therapy 62, 63; of living beings 85, 86; racial 34; self- 108, 109; social 32, 35 guidance in evolution 87 guilt 20, 29 health(y) 89; individual 63; mental 19, psychological 62, 63 heat, capacity of gases 81 hedonism(istic) culture 28 Hindu 27-30 history(ical) 10, 11, 13-15, 20, 22, 29, 32, 34, 35, 94; ancient 111; continuity 34; Indian 28; necessity 34; of ideas 31 home life 63 hormones 90 hormones 90
human(s) (ity) 57, 58, 100, 101, 105; being
16, 107-110; existence 29; experience
32, 108; intellect 61; life 15, 19;
mind 101, 118; nature 32, 89, 99;
potential 68; process 48; relations 17;
species 96; values 21, 27-30; welfare 94
humanism(ist) 99, 106
humanities 14, 22, 30, 45, 48, 92, 94
hunger 104
humner 104 hypnosis 37 hypothalamus 90 hypothesis, A Geochemical - of the Earth's Structures (s.r.) 66, 67 happiness 62 harmony(ic) hyper- 82; of the universe 86; relations 75-82; scale 75 I 39,—and Thou 107, 108 ice, age 3-5, 8; Antartic 7; Arctic 20; cap 4-6, 18, 119-20; North American 6; recession 6
idea(s) 65, 101-103; archetypal 23-24; Plato's 40; system of 107; unifying 105
ideal(s) (ization) (ist) (s) 15, 19, 20, 33;
The — and the Community (rev.) 71; Platonic 64, 95 identification by E.E.G. 36 ideology(ies) 33 Illinois, University of 67, 68 images, visual 36 imaginism 40, 42 imaginary, component in mathematics 81 imagination (ing) (ive) 36, 41, 94, 99, 102, 104-106; acts of understanding 95; creative 58; 103; — + × = Learning (s.r.) 67, 68 imperialism 27 incompleteness 108 indeterminancy 24, 43; principle 42, 60 India(n) 27-30; history 28; philosophy 27 indices, Millerian 78

individual(s) (istic) (ism) (ity) 15, 19, 20, 30, 36, 37, 60, 62, 63, 102, 105, 108, 114; Biochemical - (rev.) 47, 48; life of 92, 109 industrial revolution 9, 10, 30, 56 infinite time 44 inner conviction 109 inorganic materials 84, 86 insecure 39 insight(s) 30, 33, 39, 89, 90, 102, 105; mathematical 113; original 108 inspiration 105 instinct(s) (ive) 89, 103, 104 Institute for Philosophical Research 46 institution(s) 71 instruction 69; disciplinary 68 integer(s) in nature 75 integral order 75-82; relationship 77, 80 integration(ing) (ive) (ed) 32, 33, 44, 45; adjustment 19, 20; behavior 43; principles 119; reading & research 38; research 21, 59-61; science education 94; studies 46, 72, 93; thinking 61; whole 85 intellect(ual)(s)(ism) 12, 57, 60, 92; anti-63; human 61, resources 12; revolution 9, 11, 55-58 intelligence (ent) 36, 37, 86, 100, 105 intelligibility 95 interaction(s), human 107 intercepts 78 interest 38 international cooperation 12 interpersonal relationships 19 Interpretation of Nature and the Psyche, The (rev.) 23 interval, musical 77 introspection 29, 30, 103 intuition(s)(al) 31; concepts 24, inductive 72, religious 33 invariance 53 irrational 62; quantity 112 isostacy(ic) 5; adjustment 5; condition 120; theory 8 invention (ive) (ness) 102, 105 Jesuits 51

judgment(s) 62; value 103

kama 27 kinetics 96 know(ing) 109; -how, American 55, 56 knowledge 13, 14, 17, 46, 51, 52, 65, 66, 71, 84, 85, 93-95, 104, 105, 114, 118; atomization of 61; integration of 45

labor 9, 10, 12, 57, 58; Party 9 laboratory approach 86 language(s) 19, 38, 68, 101; of the bees 103 103
lattice, crystal 79
law(s) 16, 17, 34, 93; Boyle's 15; biogenetic 85; of evolution 87; of nature 14, 15, 22, 31; quantum 40
leadership, religious 10
learn(ing) 54, 67, 68, 72, 104, 114; process 38, 39, 52, 118
leisure 12, 57
length 76; wave 78, 80, 82
leucocytes 86 length 76; wave 78, 80, 82 leucocytes 86 life 16, 41-44, 84, 87, 91, 92, 95, 96, 99, 100, 102, 103, 105, 107, 110, 116; di-rection 62-3; healthy 62; home 63; human 15, 19, 108; meaning of 89; origin of 42, 64, 65; of the mind 68, 93, 94; processes 107; psychical 104; quantum physical basis of 40; social 31; truth in public 58 light, waves 80; wave theory of 43; white waves 80; wave theory of 43; white

line(s) rational 79; spectral 80 listen(ing) 109 tive (literature 68
living 15, 107-111; existential 62; material 84-86; non- 15, 85; organism 16, 85 standards of 12, 55; system 103, 105 untai Car ovies logic 113 ultipli loneliness 89 usic (ia love(r) 19, 27, 89, 102, 108-111; materna 101 utation yrin I stic (i yth(s) machine(s) 12, 106 madness 109 magazines 92 tion (magma 18 magnetic field 7, 21; earth's 8 magnetism, fossil 8; terrestrial 4, 7 ural (magnetizations 8
man 13, 15, 19, 20, 33, 35, 41, 46, 95, 96
99-106, 107-111, 119 -ape 104; body
of 87; common 58; creative 58; inne ture 66; mathematical mind of 111-13 mind 44; origin 20; phylogeny and ontogeny of 85; spiritual 58 managerial revolution 11 ander manpower 12 market 47 cessit ed 19 Marxism(ist) 31, 32; materialist philosophy eurose mass-production 10, 11, 55, 57; civilization 58; of galaxies 70
material (ism) (istic) 32, 38, 42, 60, 64, 84
92, 95, 114; culture 28; non-—energy obility of the mathematics (al) (ans) 15, 22, 45, 55, 75
82, 111-113, 117, 118; elementary 53
relations 81; teaching 51-54; 68-69
113; Tree of, The (rev.) 96
matter 40, 41, 64, 67, 70, 78, 80, 84-86
91, 93, 102, 115, 117; wave nature of mature 42, 43
maturity 28 58; of galaxies 70 utron maturity 28 meaning(ful) 14, 24, 31, 92, 93, 105; of life 89, 90 bjectiv measurement 16, mechanics(ism) (istic) 14, 21, 42, 44, 56 64, 84, 99, 106; classical 16; laws of 82; living 103; quantum 117; science cean (ceano 66 medicine(ical) 22, 46, 48 tave meeting 108 mental discipline 67; health 19 ld 28 nenes mental discipline 67; health 19

Mesopotamia(ns) 111, 112

metabolism 64, 65

Metagalaxy, The Inner (rev.) 70

metaphysics(ical) 44, 64, 95, 116, 119; and putimic educational 71; of modern science 72 priss method(s) (ology) 61, 83, 93, 115, 118; white analytical 41; of education 114; of reder (modern physics 44; of science 14-16, 85, 29, 33, 44, 68, 83; of teaching 48, 51; tie of teaching mathematics 51-54; 68-69 of teaching mathematics 51-54; 68-69; project 39 microphysics 24 military(ism) 10, 11, 58 rganis mutary(ism) 10, 11, 58
Millerian indices 78
mind 36-38, 40, 41, 46, 51, 52, 54, 68,
83-86, 93, 94, 100, 103-106, 117; human 101, 118; mathematical 111-13
minority(ities) 34
missile(s) 56, 59
models the control of rgani models, theoretical 31 Moksha 28, 30 molecule(s) 41 momentum 80 money 10 rthod monism 91; reductionistic 44 moral(s)(ity) 116; duties 27; goals 101; problems 65 ther

morphology 24

tion 4

Tea

dev

enc

85

99

75-

wis

erve 34

11

10 fo 8 DI

1

0

te

6

0

vum

tion 41, 76, 80, 115 ptive(s)(ation) 38, 57, 96, 108 puntain 5, building 8, 18, Building, The Cause of (s.r.) 18 terial 6, 85 ovies 39 105 ulaprakriti 23 algrakriti 23
altiplication 53
assic (ians) 68, 69, 75-82, 109
atation(s) 100; genetic 87, 103, 104
yrin Institute 118
gstic (ical) experience 27, 29
sth(s) (ology) 22, 31, 35
(Mahon Act 88 aterna tion(s) (alism) 34, 89; —Council of Teachers of Mathematics 118; underdeveloped 34 developed 34 tural(ism) law 14, 15; order 44, 46; sci-ences 16, 23, 31, 32, 119; selection 41, 85; Toward a Critical — (rev.) 95 sture 17, 23, 24, 29, 30, 35, 44, 46, 65, 66, 95, 110, 119; forces of 40; human 32, 99, 106, 108; laws of 14, 15; order in 75-82; structure in 83-86; wave 42; wisdom of 85 5, 96 body inne 11-13 wisdom of 85 anderthalenis 100 ecessity 110 ed 19 ervous tension 36 osophy euroses 90 eurotic 63 ization utrons 41 eutrons 41
respacers 93
64, 84
shilism, empirical 64
shilism, empirical 64
shilism, empirical 64
solitity 9, 10
orm(s) (al) 19, 58, 101, 103, 104, 106;
moral-aesthetic 116; person 20, 48
ry 53
ste 76, 77
68-69
ovelty (ies) biological 103, 104
sclear energy 12; thermo—bomb 13
sclear energy 12; thermo—bomb 13
sure of sumbers 52-54, 75-82, 112; theory of 112,
113 05: of bjective(ity) 33, 105 4, 56, bserve(r) (ation) 16, 17, 32, 44, 86; effect aws of 34; value of 61 science cean(s) 18 ceanographic 4 ctave 77, 80 ld 28 neness, feeling of 110
ntogeny, of man 85
ntogeny of man 85
pinion(s) 57; arbitrated 118; public 93
19; an optimism, Age of 31, 34
nce 72 orbis 21
118; rbit of the electron 81, 82
14; of rder(s) (ing) 15, 24, 30-32, 42, 44, 86, 14-16, 89, 96, 105, 116, 119; cubic 79; frictionless 115, 116; integral — in nature 75-82; living 93; natural 21, 44, 46, 118; particles 41
rganism(s) (ic) 16, 41-44, 62, 64, 84, 91, 102, 103; chemistry 84; energy transformations in 96; evolution 19; form of neness, feeling of 110 formations in 96; evolution 19; form of formations in 96; evolution 19; form of 87; living 85, 86; manipulations 86; primitive 65

rganize (s) (d) (ization) (al) 14, 57, 114, 117; levels 116; of galaxies 70; of ovum 84; process 105; social 71; system 102, 105

rigin(ality) of individual 114; of life 42, 64, 65; of Life on the Earth (s.r.) 64; of man 100, 106

rightodox(ies) religious 102 4, 68, 7; hu-1-13 rthodoxy(ies), religious 102 rthogenesis 87 ther from self 109

101

vum 84

paleontology(ists) 3
parapsychology 23, 24, 46
parent(s) 60, 63, 68
participate(ation) 39
particle(s) 80-82; elementary 16; fundamental 40-43
particularist system 33
partisanship 33
Party Labor 9 Party, Labor 9
passivity, cultural 60-61
past or future 117 pathology 19 pattern(s) 36, 37, 82, 85, 91, 105; crystal lattice 79; in space 80; in time 79 peace 88 pedagogy(ic)(ical) criteria 53 people 62, 72 perceiving 115 perception(ual) 117; constancy 63; extra-sensory 37, 38 period(icity) function 66; geological 3, 8; Silurian 8 Silurian 8
person(a) (al) 107, 109, 110; meeting of 108, normal 20, trans-107
personality(ies) 19, 30, 37, 58, 102; Concept of the Healthy—(s.r.) 62; healthy—62, 63; Toward a Concept of the Normal—(s.r.) 19
persuasion 11, 12, 57
pharmaceutical products 46
phenomenon(a) (al) 15, 16; material 84;
world 83 world 83 world 83
philosophy(ical) (er) 14, 15, 17, 28, 41,
44, 72, 83, 95, 102, 103, 105, 117;
Hindu 28; Indian 27; mechanistic 99;
neo-Pythagorean 75; of culture 48; of
education 71, 72; — of Education
(rev.) 119; of science 21, 22, 81; Organic — of Education (rev.) 71; system 42
photoelectric effect 80 photo-electric effect 80 photons 80 phylogeny of man 85 physical (ism) 42, 46; realm of 103; sciences 23 physics(ist)(s) 16, 21, 23, 24, 44, 59, 75-82, 95, 115, 119-20; and religion 43; laws of 84; materialistic 40; quantum 24, 41-43 physiology (ical) 100 pitch 75, 76, 77; of frequency 76 plane(s) 78, 79 planets 24, 70 Planck's constant 80 plant(s); design of 86; geographer 4 plastic rock 5 Platonic (ism) idealists 64, 71 play 38, 69; therapy 107 Pleistocene 8 Plimpton tablet 112, 113 poem(s) 110 polar shift 3-8; wandering 7 polarization 8
pole(s) 4, 5, 8, 120; fixity of the 4
policy(ies) 88
politics(ical) 12, 13, 15, 65, 71
population 47 possessions, material 27 postulation 118 postulation 118
potential(ity)(ies) 62, 85, 87; creative 114;
human 68, 85, 86, 107-111
power 10, 11, 12, 58, 65; atomic 88; Atoms
for Power (s.r.) 88
pragmatism 55, 71 precognition 117 predicament, modern 13 prediction(s) 13, 15, 60, 111, 118; deduc-tive 118 preformationist viewpoint 87 press 11 pressure in the earth's core 66 principle(s) 14, 17, 21, 46, 84, 93, 118;

ecological 21; guiding 62; integrative 119; of mathematics 67; of natural order 21; synchronistic 24; uncertainty 16, 43 prism 80 probability 23, 24, 43 problem(s) 19; mathematical 53; moral 65; sensitivity to 114; solving 11; technological 11 process(es) 33, 35; creative 102, 103; hu-man 48; learning 38, 52, 118; life 107; man 48; learning 38, 52, 118; life 107; of evolution 87; organizing 105; psychological 103; rational 105 production 12, 13; mass- 10, 11, 55, 57 progress 32, 35, 88, 102; scientific 114 project method 39 propaganda 12, 57, 58 property(ies) 10, 40, 41; chemical 66, 67; institution of 47 propositions, mathematical 52 propositions, mathematical 52 protein(s) 64, 65 protons 41 protoplasm 84 psyche(ic)(ical) 23, 24; advance 100; life psyche(ic) (ical) 23, 24; advance 100; life 104; realm of 103 psychiatry (ists) 16, 46
Psychical Research, Society for 23 psychology (ical) (ist) (s) 23, 24, 32, 39, 46, 47, 62, 63, 102, 103; criteria 53; health 62-3; normality 19; processes 103 Psychopharmacologic Drugs (s.r.) 90 psychoses 90 psychotherapy 19 public opinion 93; relations 11, 12; school system 93
publicity 92
purpose(s) (ive) 103-105, 108, 109; biological 83-86, 103; cosmic 44; drive purusharthas 27 Pythagorean triplet 112 qualities 40, 86, 107 quantity, irrational 112 quantuum physics 24, 41-43; laws 40; me-chanics 117; theory 14, 40, 80, 91

race(ial) 33, 34 radiation 70 radiocarbon dating 4 radioelement dating 5, 6 randomicity in galaxies 70 randomization principle 84 ratio(s) musical 77, 78 rational(ity) 30, 105; line 79 react 107 react 107
reaction, chemical 41; -time 37
reading, integrated 38
reality 11, 23, 29, 34, 35, 40, 43, 44, 46, 51, 52, 63, 77, 81, 116
rearrange, ability to 114
reason 15, 31, 100, 104
recapitulation of stages of evolution 85
redefinition 114 redefinition 114 reductionism 44 regulate(ion) (atory) 102; self-103, 104 relatedness 39, 89 relatedness 39, 89
relation(s) (ships) 67, 114-116; harmonic 76, 77, 79; human 17, 107-111; in mathematics 67, 113; integral 77-80; internal 51, 52; interpersonal 19; mathematical 81; social 10; spatial 53 relativity 35, 40, 44; of social sciences 34 religion(s) (ous) 22, 27-30, 32, 33, 35, 44, 83, 102, 116, 119; and physics 43; comparative 32; intuition 33; leadership 10; thinking 15; Western 15
Renaissance 22 Renaissance 22 reproduce(tion) 102

research 67, 68, 71, 84-86; educational 71; integrative 21, 38, 59-61, 72; people 11; scientific 59-61, 65, 68; specialists 12; weather 6; worker 83 Research Society for Creative Altruism 21 resource(s) intellectual 12 resource(s) intellectual 12
response(s), patterns of 91; stimulus- 107
responsibility 19, 20, 58; group 63
revolution(s)(ary) 10, 11; counter- 10;
French 9; industrial 9, 10, 30, 56; intellectual 9, 11, 55-58; managerial 11;
social 9; third 9-12
rhipercepholon 20 rhinencephelon 90 rhythm, alpha 36, 37; beta 36; delta 36; theta 36, 37 Ricardian development 47 rock(s) igneous 7, 8; plastic 5 Rosicrucian 24 rotation of the earth 7, 120 rule(s) and conventions 108 sannyasin 28 science (s) (tific) (ists) 11, 13-15, 17, 22, 23, 27, 29, 30, 41, 42, 44, 47, 55-58, 59-61, 63, 66, 67, 71, 83-86, 88, 92-94, 105, 106, 115, 116; and the Citizen (s.r.) 65, 66; and the Creative Spirit rev.) 94; and Human Values (rev.) 94; as citizen 64, 65; attitude 66; biological 84; contemporary 43, 72; creativity of 95; discipline 61; earth 3; ativity of 95; discipline 61; earth 3; education of 44, 45; exact 16; medical 59-61; method 14-16, 29, 33, 44, 66; natural 16, 23, 31, 32, 46, 119; perspective 13; philosophy of 21, 81; progress 114; pure 13; research 59-61; 65; social 16, 30, 31, 35, 48; teaching 67-69; theory 44 search(ing) inward 110 secrecy 88 security 33, 108 sediments 8 atellite(s) 59; artifical 55 acale, harmonic 75 chizophrenic mentation 90 93; mathematics in 52; system 48, 68 smicity 18 selection, natural 85; sexual 101
self(ves) 19, 20, 37, 62, 102, 108, 110;
awareness 86, 110; consciousness 105;
denial 108; determination 43; direcdenial 108; determination 43; direc-tion 38, 39, 108; -discovery 28; ex-perience of 109; -forgiveness 89; growth 108, 109; -hood 29; involve-ment 109; -motivation 38; ordering 41; Real 30; -realization 62; regulatory 103, 104; -respect 20

cilessness 102 consation(s)(alism) 92, 104 conse(s), common 116; moral 101 sensitivity to problems 114 set(s) 69; algebraic 52, 53, 67 sex(es)(ual) 89; selection 101 sexagesimal expansion 113 share(ing) transpersonal 107 Shudra 28 Sigma-Xi 44 Silurian period 8 simplification, over- 83 simultaneity 24 sincerity 110 singing, young children and 68 situation(s) 51, 52; mathematical 51-2 Six Wings, Men of Science in the Renaissance (rev.) 22 skill(s) 39, 52, 68, 69; unified 108 sleep, E. E. G. rhythm in 36-38 scipl(instance) social (ization) and Cultural Dynamics (rev.) 70; conception 71; disorders 68, 94; duties 27; dynamic 31; function 10; groups 28; growth 32; organiza-

tion 70; problems 65; recognition 12, 58; relationships 10; sciences 16, 31-35, 48; scientists 30; structure 47, 60; studies 38; synthesis 47; theory 31-35 socialism 9 society 10, 12, 14, 16, 19, 29, 31-35, 47, 55-58, 71, 95, 107; and art 114; Hindu 27; technological 30 sociology(ists) 13, 16 socionomy 47 solar eclipses 111 solution(s) 62 solving problems 11 somatic influence 84 soul(s) 24, 38, 99, 102 sound(s) 77 source readings: 18-20; 43-45; 64-68; 87-91; 114-117 Soviets 12, U.S.S.R. 59 space(ial) 40, 64, 70, 75, 117; pattern in 80; relations 53; -time continuum 23, 44, 117, 118 specialist(s) (ization) 11, 32, 45; over- 92; research 12 species 8, 87; human 96 spectrum(al) 80; lines 80 speech 101, 104 spirit(ual) 101; attunement 29; develop-ment 28; discipline 27; man 58; values 102 spontaneous generation 42, 91 sports 60 sputniks 55, 56 stability 84 standard(s) 107; of living 12, 55 star(s) 70 state(s) 33; steady 75 statesmanship 13, 34 statics 96; social 34, 35 statistics 32 stimulus (i) environmental 103; -response structure(s)(al) atomic 75-82; capacities and 86; design of plants and animals 86; meaning 93; of genes 87; of matter 85; of nature 83-86 student(s) 22, 28 study(ies) geochemical 64; integrative 72, 93; program of mathematical 52 subjective experience 100 subjective experience 109 success, experience of 63 suffer(ing) human 108 Superconductivity (s.r.) 115 Superfluids (s.r.) 115 superstitions 83 survival 13, 31, 33-35 symbol(s) (ism) (ization) 19; abstract 86; religious 116 symmetry 78 synchronicity(ic)(ization) 23, 84; principle 24 ple 24 synthesis 31, 45, 61, 84, 106; and closure 114; social 34, 35, 47 system(s)(atic) 93; biological 106; coord-inate 78; educational 61, 68; living 103; 105; of ideas 107; organized 102; particularist 33; philosophical 42; school 48, 68; social 60 teach(ing) 45, 56, 69; mathematics 51-54;

68, 69, 113; methods 51, 67 her(s) 11, 12, 22, 23, 38, 55, 68, 72, 93, 119; education 48; training 114 teacher(s) technical education in the U.S.S.R. 118 technical education in the U.S.S.R. 118
technique(s) (ican) 94; of science 66
technology(ies) (ical) 13, 14, 27, 29, 55,
56, 88, 94, 100; developments 60;
problems 11; society 30
teleology(ical) 103
telepathy(ic) 38; phenomena 23
television 39, 60, 61
temperature(s) earth's 119; of the centris-

phere 67; world 6 elfare, tension 76; nervous 36 terrestrial magnetism 4, 7 hole (n thalamus 90 thalamus 90 109
theology 43, 44, 99 109
theory (ies) (ethical) 13, 14, 86, 87; classic 1 89, 43; correspondence 23; Isostatic 3 adom models 31; of numbers 112, 113; quanthe tum 14, 40; scientific 44; social 31-3, ork(er wave 43 therapy 62; play 107 thermo-dynamics 60, 66, 81; -nuclear bom 13 theta rhythm 36, 37 thing 107 think(ing) 36, 61, 105, 115; religious 1 third estate 9; revolution 9-12 thought(s) 90, abstract 103, 105; child 68; dynamics of 51 time 44, 75, 117; space- continuum 2; 44, 117; pattern in 79 tone(s), musical 77, 79 tool(s) 104; -using 100 topology 53 IND totalitarian(s) 9; states 12 trance 38 tranquilizer(s) 46, 90 transformation, Gestalt 114 trigonometry, elements of 113 true, truth 17, 83, 93, 95; in public lif 58; to himself 109 unawareness 108

uncertainty principle 16, 43 unconscious 89, 90, 105 underdeveloped nations 34 understanding 14, 15, 17, 39, 69, 96, 107 imaginative acts of 95; of evil 108; of good 109; of ourselves 30; of the worl uniform(ities) 105 unifying ideas 105 union with God 89 unique, personal relationship 108; potenti Beber alities 109 unison 79 unit, Angstrom 79 Unitarian Association, American 99 United States 29 unity 34, 107; of human nature 108 universe (al) 24, 31, 35, 70, 82, 86, 119 120; creation of 43; Discovery of the (rev.) 22 uknowns in nature 84 U.S.S.R. 59; technical education in 118

value(s) 15, 17, 19, 32, 39, 44, 46, 58, 71 93, 95, 101, 109, 116 cultural 35 ethical and aesthetic 30; human 21 27-30, 31-35; judgments 103; spiritua 102 variable(s)(ation)(ability) 15, 16, 41, 47, 48, 82 verbalization(s) 67 vibration 75, 76, 79, 80, 82 Victorianism 31 violence 37 virus(es) 64 visual(ization) 36; color 91; images 36 vitalist notion 87 vocation(s) 27 volcanism (ic) 5, 8, arcs 18

Waldorf School of Adelphi College 118 war(s) 10, 13, 32, 33, 55; nuclear 88 wave(s) 41, 42, 80-82; De Broglie 81; earthquake 18; length 78, 80, 82; pattern 75, 77; theory of light and matter 43, 91 weather research 6

Adam Adler Agar Alee Almo Amor

Andre

93

Archi Arens Arista Aristo Aurel Bacon Barbo

Becke

Beitte

Bell, Belln Benic Bhav Bigu Bogo Bohr 88 Borg

> Bran Britt Bron Bube Burk Buse Butl

Brag

Can Can 8, Can Cass Cast Cha

Cho Cles Cler Coc 4

Coc

elfare, human 94 hole (ness), being 108; of human life 108, classic 1 89, 90 atic 3 3dom 20, 95, 109; of the body 85; of 3; qua the living 86; of nature 85 1 31-3; ork(ers) 12, 30 workingclass 10 world 96, 108; academic 61; affairs 29; na-ture of the 95; temperatures 6; view 44, 116

yoga 29 youth 28, 56, 60, 63

X-radiation 78 X-rays 79

zero, absolute 115 zones, climatic 4

NDEX OF NAMES

ar bom

ious 15 child's um 21

Adam, P. Puig 54 Adler, Mortimer 71 blic lite Agar 103 Alee 101 Almond 8 Amontons 115 Andrews, Donald Hatch 75,

Archimedes 86 Arens, Richard 96 96, 107 Aristarchus 22 108; d'Aristotle 16, 22, 32, 33, 75 te world Aurelius, Marcus 35

Bacon, Sir Francis 83 Bacon, Sir Francis 65
Barbour, Ian G. 43, 44
potent
Beckenbach, Edwin F. 96
Beittel, Kenneth 114
Bell, E. T. 96
Bellman, Richard 96
Benioff 18
Beniley Arthur F. 24 Bentley, Arthur F. 24 Bertley, Binoba 30

Biguenet, A. 54
Bogoslavsky, Boris B. 9, 55
Bohr, Niels 24, 41, 44, 80, n 118

88
Borgia, Cesare 22
Bragg, W. L. 79
Brameld, Theodore 48
Brittain, Lambert 114
Bronowski, J. 94, 95
Brown, Harcourt 94
Buber, Martin 107
Burke, Edmund 28
Busemann, Herbert 96
Butler, J. A. V. 45

es 36

118 88

lie 81; 32; pat

Campadelli, L. 54
Campbell, James H. 3, 5, 6,
8, 119-20 Canavesio, Orlando 38 Cassirer, Ernst 71 Castelnuovo, E. 54 Chamberlain, John 47 Choquet, G. 54

Clegg 8
Clemenceau 10
Cochran, Andrew A. 40, 41, 42, 91 Cockcroft, Sir John 88

Coleridge 105 Coxeter, H.S.M. 96 Cuisenaire, Georges 52, 54, Culp, Harvey W. 23, 48, 91, 95, 117 Curtiss, J. H. 96

Darwin, Charles 64, 85, 99, 101, 102 101, 102
da Vinci, Leonardo 22, 119
De Broglie, Louis 80, 82
Deutsch, Karl 94
De Valois 90
Dewey, John 71, 72
Diamond, Louis E. 96
Dieudonne, J. 54
Dobzhansky, Theodosius 87
Driesch 103
Durer, 23 Durer 23

Eardley, Armand J. 18 Edison, Thomas 11 Edmunds, H. Tudor 36 Einstein, Albert 3, 6, 11, 60, 80, 119 Eisenhower, Dwight, President 88
Euclid 22, 54
Eudoxus 22

Faust, Clarence H. 46 Fawcett, Douglas 40, 41, 42 Fawcett, Harold P. 118 Fletcher, T. J. 54 Florkin, M. 64 Florkin, M Fludd 24 Frankel, Charles 29 Frechet, Maurice 96 Freud, Sigmund 89

Galileo 14, 16, 24 Gandhi, Mahatma 30 Gardner, John W. 68 Gattegno, C. 51, 54, 69, 118 Geertz, Clifford 116, 117 Gibbon 31

Gibbs, Dr. Josiah Willard Graham, J. W. Dr. 7 Green, John W. 96 Green, Lothian 21 Guilford, J. P. 114 Gutenberg 4

Haldane 64, 65
Hall, Dick Wick 96
Hall, Roy M. 118
Hapgood, Charles H. 3-8,
20, 21, 119-20
Hardeman, Mildred 39
Harris, William Henry 27
Hartsoeker 87
Hawkins, David 95
Heath, Spencer 47
Heisenberg, W. 16, 43, 60
Heraclitus 24
Hestenes, Magnus R. 96
Hills, E. Justin 96
Himwich, H. E. 90
Hindemith, Paul 77
Hoppock, Robert 24
Housman, A. E. 105
Hurley, Kenneth E. 48
Huxley, Julian 100
Hyers, D. H. 96

James, Glenn 96 James, Robert C. 96 James, William 71 Jeffreys, Harold Dr. 4 Jessup, Philip C. 88 Jesus 15 Johnson, Gaylord 20 Johnson, Raynor C. 40, 42, 43, 91 Jordan 41 Jung, C. G. 23, 24, 46

Kant, Immanuel 14, 95 Kapustinsky, A. F. 66 Karoly 90
Kepler, 23, 24
Kierkegaard 15, 108
Kilpatrick, William Heard Kitai 90 Klein 53
Kluckhohn, Clyde 48
Kohler, Wolfgang 71
Kohnstamm, Max 88 Knorr, Klaus 88 Kooy, J. M. J. 117 Kreitner, John 111, 118

Kropotkin 101 Krutch, Joseph Wood 100 Kunz, F. L. 21, 22, 46, 69, 71, 72, 94, 96, 118, 119

Lambert 4 Larys, Bohumir 24, 120 Lawrence, Mrs. 109 Leake, Chauncey D. 63 Leibnitz 23 Lewis 66 Lichnerowicz, A. 54 Lincoln, Abraham 92 Lindberg, Anne 28 Lindberg, John 31, 47 Lorenz, Konrad 101 Lotka, Alfred J. 96 Lowenfeld, Viktor 23, 114, 115 Luce, Henry 93

Mallery, Arlington H. 6 Malraux 15 Mannion, Alan 66, 67, 87, 117 Margenau, Henry 13, 21 Marquand, John P. 28 Maritain, Jacques 71 Martin, Gustav J. 59 Marx, Karl 57 Mather, Kirtley F. 70, 95 Mathhias, B. T. 115 Mazziotta, Estella 96 Meinesz 18 Mendelssohn, K. 115, 116 Mendelssohn, K. 115, 116 Menninger, Karl 46 Michal, Aristotle D. 96 Mill, John Stuart 95 Miller, 42 Montagu, Ashley 101 Motard, A. 54 Mounier, Emmanuel 30 Moustakas, Clark 107 Murphy, Gardner 62 Murphy, Robert 89

Nernst 155 Nernst 155 Neugebauer, O. 112 Newton 14, 80 Nicholson, S. J. 20, 45, 90 Nicholson, William M. 62 Nicolet, J. L. 54 Nietzsche 15 Northrop, F. S. C. 71, 72

Oparin, A. I. 64 Oppenheimer, Robert 66, 88, 92

Ore, Oystein 112 Orser, Marifrances 24

Pagel, B. 22
Pasteur 64
Pauli, W. 23, 24
Peskett, J. W. 54
Phenix, Philip 119
Phillips, Leslie 62
Piaget, J. 54, 63
Pierce 71
Pirie, N. W. 64
Planck, Max 43, 80, 82
Plato 22, 28, 35, 40, 109, 120
Poincare 105
Pow, Vina 69, 118
Priestley, F. E. S. 94
Pythagoras 75, 76, 113

Rabi, Isidor I. 45 Ramakrishna, Sri 27 Ranke 14 Reston, James 92, 93 Rilke, Rainer Maria 109, 110 Robbins, Charles K. 96 Roe, Ann 62 Rogers, Carl 62 Romanell, Patrick 95 Rowan, Helen 67 Runcorn 8 Russell, E. S. 103

Sachs, A. 112
Sanders, Adam A. 91
Santayana 71
Sarton, George 22
Sartre, Jean Paul 15
Savonarola 22
Schoonmaker, Ellice 38
Schroedinger, Ernst 82
Sellon, E. B. 18, 44, 65, 68, 89, 115
Servais, W. 54
Sforza, Lodovico 22
Shapley, Harlow 70
Shoben, Jr. Edward
Joseph 19, 20

Simmonds, C. E. 118
Smith 90
Smith, David E. 111
Sorokin, Pitirim A. 70
Standen, Anthony 14
Stimson 88
Stubbs 8
Sulzberger, Arthur Hayes 93
Synge, Anna 64
Synge, R. L. M. 64
Sze, Mai-Mai 24

Tarascon 22
Tausky, Olga 96
Taylor, Alfred 83, 116
Taylor, Hugh 44, 45
Taylor, Richard W. 24
Tillich 15
Todd, John 96
Townsend, Oliver 88
Toynbee 14, 33

Urey 42 Urry 6 Vaucouleurs, Gerard de 22 von Frisch 103 von Nexkull 71

Wald, George 42, 43, 91
Walter, W. Gray 36
Weaver, Warren 65
Wegener, Alfred von 3, 4, 20
Wegener, Dr. Frank C. 71, 72
Wegnocki 19
Weissmann 85
White, Robert W. 62
Whitehead, A. N. 31, 40, 41, 44, 71
Zinn, Walter H. 88
Williams, Roger J. 47, 48
Wohler 84
Wolf, R. 111
Woodring, Paul 24, 48

Yamunacharya, M. 28

Zimmer, Heinrich 28

10

de 22

91

3, 4, C. 71,

2 1, 40,

7, 48

8